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Abstract of the Disclosure

The invented Sander with Orbiting Platen and Abrasive includes a platen, an abrasive secured to the platen, and a motor connected to the platen to move the platen and abrasive in an orbit or circular pattern. The motor is connected to the platen by a belt that extends around at least one drive shaft, where the shaft includes two ends with a step between the ends so that when the shaft is rotated around one end's longitudinal axis, the step causes a portion of the shaft and the platen to orbit around that axis. The preferred embodiment of the invented sander includes a frame, a conveyor, first and second drive shafts that support a brace and that cause the brace to move in a first orbit, second and third drive shafts that are supported by the brace and connected to an orbit so that when the second and third drive shafts are rotated, the platen moves in a second orbit, and a plurality of rubber or synthetic rubber stabilizers positioned between the brace and platen. In the invented sander the conveyor feeds a product toward the platen and a rotating brush abrades and polishes the product after it has been sanded by the platen.